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APPLICATION NO.	FT	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/813,186	(03/29/2004	Joseph D. Dakan SR.	P 04-08 5843		
27656	7590	08/24/2004		EXAMINER		
MICHAEL J. WEINS 31 BANK STREET				LIN, ING HOUR		
LEBANON		66		ART UNIT	PAPER NUMBER	
				1725		

DATE MAILED: 08/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office Action Servers	10/813,186	DAKAN ET AL.	/
Office Action Summary	Examiner	Art Unit	
	Ing-Hour Lin	1725	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	vith the correspondence addres	SS
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ly within the statutory minimum of th will apply and will expire SIX (6) MC e. cause the application to become A	reply be timely filed irty (30) days will be considered timely. WITHS from the mailing date of this commu	nication.
Status			
1)⊠ Responsive to communication(s) filed on 29 №	larch 2004		
	s action is non-final.		
3) Since this application is in condition for allowa closed in accordance with the practice under the second secon	nce except for formal ma		rits is
Disposition of Claims			
 4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o 			
Application Papers			
9) The specification is objected to by the Examine			
10)☐ The drawing(s) filed on is/are: a)☐ acc			
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. § 119			
a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in A rity documents have been u (PCT Rule 17.2(a)).	Application No received in this National Stag	e
Attachment(s)	. —		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(:	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 15-16, 18-23 and 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Williamson in view of Dakan et al.

Williamson (col. 3, lines 7+) teaches the claimed method of fabricating a cast-iron bottle mold, comprising: providing an insert 12 of nickel cobalt alloy into a mold cavity and casting the

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metal mold with molten cast iron, wherein the insert having protrusions such as serrations 24 (col. 3, line 55), and projection (col. 4, line 9+). Williamson fails to teach the use of chill

However, Dakan et al (col. 3 lines 41+) teach the use of a chill such as cast iron for the purpose of reducing the shrinkage in the resulting casting and providing a fine grain structure in the casting. It would have been obvious to one having ordinary skill in the art to provide Williamson the use of a chill such as cast iron as taught by Dakan et al in order to effectively reduce the shrinkage in the resulting casting and providing a fine grain structure in the casting.

7. Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Williamson in view of Dakan et al and further in view of Jeanneret.

Williamson in view of Dakan et al fail to teach the use of a gating system. However,

Jeanneret (col. 4, lines 11+) teaches the use of a gating system having sprue 1, runner 4, riser,
ingate 5 and riser neck 9 for the purpose of pouring molten metal into the mold cavity and
solidifying the molten metal without porosity. It would have been obvious to one having
ordinary skill in the art to provide Williamson in view of Dakan et al the use of a gating system
as taught by Jeanneret in order to effectively cast molten metal into the mold cavity and produce
casting without porosity.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ing-Hour Lin whose telephone number is (571) 272-1180. The examiner can normally be reached on M-F (8:00-5:30) Second Friday Off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

lifex.

I.-H. Lin

8-20-04

Kiley 8. Stoner Primary examiner

Hey ston 8/23/04